

**PUBLIC SERVICE COMMISSION OF WISCONSIN**  
**INFORMATION REQUIREMENTS FOR NATURAL GAS PIPELINE**  
**CONSTRUCTION PROJECTS** Version 11/19/2001

**(Part 6.00)**

**General Instructions**

Gas fired power plants usually require a new connection to existing natural gas transmission facilities. The gas connection could be a tap off an existing gas transmission system that crosses the power plant site or could include a new segment of connecting gas line.

The natural gas connection could be built and owned by the power plant developer, a local natural gas utility, or an interstate pipeline company. If the natural gas connection is constructed and owned by a local natural gas utility, a Commission construction certificate may be necessary. If the natural gas connection is constructed by an interstate pipeline company, a federal construction certificate may be necessary.

A power plant CPCN application must contain the information in Part 6.00 regarding the natural gas connection. In addition, if the natural gas connection is to be built and owned by a state regulated natural gas utility, any required construction certificate application must be filed with the Commission at the same time the power plant CPCN application is filed. It is essential that prospective power plant applicants discuss the associated natural gas line connections and application requirements with Commission staff prior to filing a CPCN application with the Commission. Missing information on the associated natural gas line must be provided before a CPCN application is to be deemed complete.

In addition to hard copies, the applicant should provide disks with text in Microsoft Word. Commission staff work in Word 2002. In addition to hard copies of maps and graphics, digital versions must be submitted (see below). Additionally, the PSC requires applicants to minimize the bulk of their applications by eliminating superfluous information and bulk information not material to the case. The following examples should be used as a guide:

- 1) When submitting required information such as local ordinances, land use plans or other local and county planning documents, only submit those pages relevant to the information requirement, i.e. pages specific to land use or noise. If Commission staff is interested in having the entire document for context, the PSC would require the applicant to file one copy under a separate cover.
- 2) Duplicative information should be minimized in an application. For example, if certain information, such as a Developer's Agreement, is applicable to more than one area of the CPCN application, include the entire document as an Appendix and reference it in the application text.

- 3) When submitting correspondence between the applicant and state, local and federal government permitting agencies, submit only copies of “official” correspondence, i.e. letters from the applicant to an agency and the agency response to the applicant. Commission staff needs to track this correspondence to verify that the applicant has applied for permits and the status of the permit review. Do not include unofficial minutes of meetings or records of telephone conversations between the applicant/applicant’s consultant and permitting agencies as these documents represent hearsay and are not considered factual information.
- 4) Applications are to be submitted with double-sided printed pages. This includes the text of the application as well as copies of supporting documentation submitted in the application. Exceptions to this requirement are large maps and figures (sized larger than 8 1/2 x 11 inches).

**Important notes on digital forms of graphics:**

- All required maps and other graphics must be supplied in both hard copy and digital formats.
- Line drawings must be in AutoCad \*.dwg format or \*.dxf format (check with Commission staff for the appropriate AutoCAD release). The preference is \*.dwg.
- If Geographic Information Systems (GIS) data files are used, submit GIS data files in Shapefile format (ESRI ArcView). All GIS data submitted must be projected to Wisconsin Transverse Mercator (WTM), a projection system unique to Wisconsin and used by Wisconsin agencies. The WTM uses North American Datum (NAD) 83/91. The WTM projections are:

<b>Projection</b>	Transverse Mercator
<b>Spheroid</b>	GRS80
<b>Scale Factor at Central Meridian</b>	0.9996
<b>Longitude of Central Meridian</b>	90° W (-90°)
<b>Latitude of Origin</b>	0°
<b>False Easting</b>	520,000
<b>False Northing</b>	-4,480,000
<b>Unit</b>	meter

- Photographic images of the existing landscape and renderings of proposed facilities on the existing landscape must be submitted in a high-resolution uncompressed \*.tif format (preferred) or high-resolution \*.jpg format.
- Scanned documents which cannot be submitted in any other format must be submitted in \*.gif format at a depth of 256 colors or less.
- When providing maps, note facility locations but do not obscure map details.

Direct questions concerning these information requirements to Michael John Jaeger of the Commission staff, at (608) 267-2546, e-mail [jaegem@psc.state.wi.us](mailto:jaegem@psc.state.wi.us).

## **Part 6.00 - Information Requirements for Natural Gas Pipelines**

The information needed for gas pipelines is similar to the information needed for the electric transmission lines. The obvious exceptions are the electrical engineering parameters and EMF data. **The following information must be included and formatted as follows in a complete application, or a showing must be made as to why the information is not applicable.**

### **6.00 ENGINEERING INFORMATION**

- 6.01. Builder and owner of gas system connection.
- 6.02. Source of the gas supply (transmission connection). Rate conditions under which service is to be taken.
- 6.03. Size of line – include pipe size and pressure.
- 6.04. Other gas facilities needed – regulator station, gate station, odorizing equipment, etc. (Provide detailed information on the size of facilities, location, general layout, equipment needed, land acquisition, ownership, and operation.)
- 6.05. Cost of materials and construction.
- 6.06. Proposed construction schedule.
- 6.07. Gas service availability to other property owners along the route.
- 6.08. Flow diagram of provider's system showing how the power plant at maximum gas flow rate would affect the system pressures.

### **6.10 ENVIRONMENTAL INFORMATION**

- 6.11 General route information.
  - a. Provide at least two viable routes for supplying gas to the project. Detailed information about any new or expanded regulator stations.
  - b. Description of route (any alternative) and connection point to gas supply.
  - c. Description of any changes to supply line (i.e., if the supply line must be upgraded to supply project, that must be detailed as well).
  - d. Detailed maps clearly showing location of line routes and/or size and location of any new regulator station site or existing station expansion.

- i. Topographic maps 1:24,000 scale, plat maps for cross country portions of routes, and city maps for lines in urban areas.
- ii. Recent aerial photos showing routes (without obscuring any information).
- e. Zoning maps and land use for the routes and/or substation sites.
- f. Any land use plans for the area.
- g. Flood plain maps (Flood Insurance Rate Maps (FIRM)).

6.12 Detailed route information.

- a. By segment, for each route, in table format<sup>1</sup>.
  - i. Total length (feet and miles).
  - ii. Size of new right-of-way (ROW) needed (width and length).
  - iii. Amount of existing ROW, if any.
  - iv. Total land impacted (length in feet x width of ROW in feet) /43,560 = area (acres).
  - v. Percent corridor sharing -- including total percent and shared percent of the ROW width. Type of corridor shared (e.g., existing transmission line, county road, city street or railroad corridor). For railroad, is it active or abandoned? Who owns it? Does the owner agree to corridor sharing?
  - vi. Land use and zoning by type.
- b. Agricultural land use, where applicable, by segment, (e.g. pasture, row crops, or other type such as orchards).
- c. Affect of project on tiled land. (Describe mitigation planned).
- d. Description of wetlands and stream and river crossings, where applicable, by segment using same classification system as Wisconsin Department of Natural Resources (WDNR), dominant vegetation, etc and original WDNR wetland maps for routes
- e. Description of any forest lands, where applicable, by segment including type of woodlands, dominant species, age, ownership (e.g. private, county forest). Description of use (e.g. recreation, timber).
- f. By route segment, provide for each of the below land use types, the total ROW length in feet and acreage for each land use noting any changes in ROW width:

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<sup>1</sup> The sample map (Figure 1) enclosed shows how routes can be broken into segments. Segments are useful when two or more proposed routes cross or are very close. It is not uncommon for PSC staff to recommend a "new" route based on a different combination of segments from two separate routes or to suggest entirely new segments. In order to do this, we need the environmental information on transmission line routes organized by segments. Route segments should be clearly marked on all maps, and a written description should be supplied for each route by segment.

- i. Agricultural land
  - ii. Forest
  - iii. Wetlands
  - iv. Recreational (park, wildlife area etc)
  - v. Residential
  - vi. Commercial/industrial
- g. Stream or river crossings for each segment.
- h. Information on endangered and threatened species.<sup>2</sup>
- i. An evaluation by the State Historical Society of Wisconsin of whether any known archeological or historical resources would be affected and whether or not unknown archeological resources would be likely along the project route.

## **6.20 CONSTRUCTION METHODS**

Detailed description of construction methods (type of machinery used, size or trench erosion control methods, disposition of fill, method for crossing roads, driveways, streams (e.g. open trench, boring, etc.)) methods for mitigating inconvenience caused by construction to home owners and businesses, time table for construction, and revegetation plans. Include description of how construction will occur in/around wetlands, agricultural lands, forest lands, and when crossing streams and rivers.

## **6.30 OTHER AGENCY CORRESPONDENCE**

- 6.31. Copies of the applicant's correspondence with other agencies.
- 6.32. Copies of agency responses to the applicant's inquiries regarding the project.
- 6.33. Permits required (noting any federal permits administered by the state):
  - a. Wisconsin Department of Transportation permits.
  - b. Department of Agriculture, Trade and Consumer Protection (Agricultural Impact Statement).

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<sup>2</sup> This information is available from the DNR, Bureau of Endangered Species.

- c. State Historical Society (historical and archeological resources).<sup>3</sup>
- d. DNR, Bureau of Endangered Resources.
- e. Federal permits of any kind relating to the project, (e.g. Army Corps, FERC, etc).
- f. DNR permits: i.e., stream crossings, etc.
- g. Local zoning permits: Variances, zoning changes required, etc.
- h. City or local permits for construction activities (road or highway department).

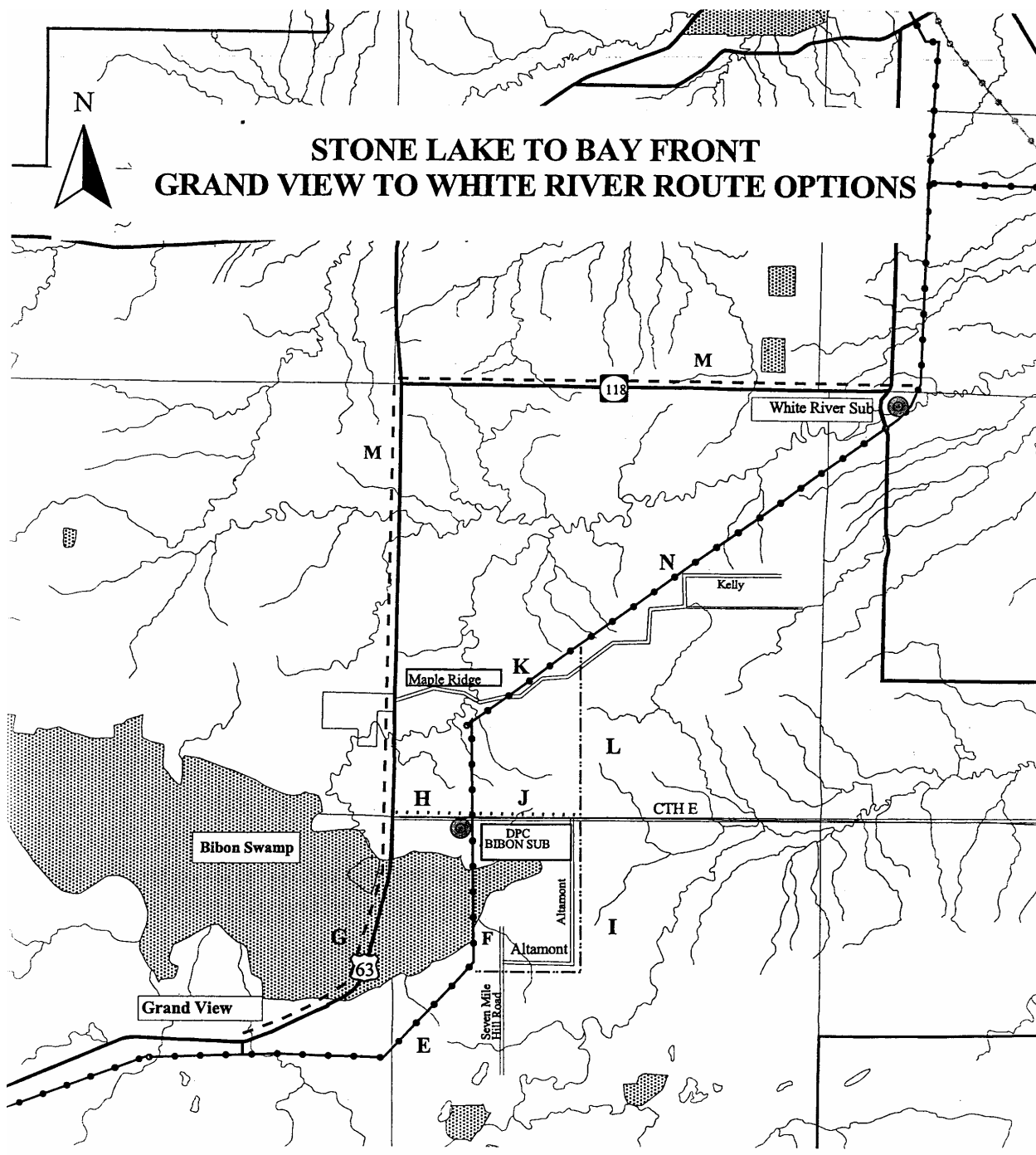
#### **6.40 PROPERTY OWNER INFORMATION**

List (in Microsoft Excel or compatible program) of property owners along each pipeline route and those adjacent to any new natural gas facilities.<sup>4</sup>

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<sup>3</sup> Pay particular attention to whether the federal process under section 106 of the Historic Preservation Act applies. Section 106 will pertain to the entire project – turbine facility, electric, and natural gas transmission.

<sup>4</sup> Do not duplicate local officials or state and federal agencies included on the electric transmission part of the project.



- USH 63 ROUTE (G, H, M)
- - - - - EAST BIBBON ROUTE (E, I, J, L, N)
- EXISTING ROW (E, F, K, N)
- ..... 69kV TAP

1 0 1 2 Miles

FIGURE 1